(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 12 May 2005 (12.05.2005)

PCT

(10) International Publication Number WO 2005/042491 A1

(51) International Patent Classification7: A61K 31/55, A61P 25/00, 3/04, 15/00 C07D 223/16.

- (21) International Application Number:
 - PCT/US2004/034917
- (22) International Filing Date: 21 October 2004 (21.10.2004)
- (25) Filing Language:
- English
- (26) Publication Language:
- English

- (30) Priority Data: 60/513,865
 - 22 October 2003 (22.10.2003) US
- (71) Applicant (for all designated States except US): ARENA PHARMACEUTICALS, INC. [US/US]: 6166 Naney Ridge Drive, San Diego, CA 92121-3223 (US).
- (72) Inventors; and (75) Inventors/Applicants (for US only): SMITH, Brian [US/US]; 13182 Mesa Crest Place, San Diego, CA 92129 (US). GILSON, Charles, III [US/US]; 7176 Salizar Street, San Diego, California 92111 (US). SCHULTZ, Jeffrey [US/US]; 10156 Prairie Fawn Drive, San Diego, California 92127 (US), ESTRADA, Scott [US/US]; 415 Colima Street, No.15, La Jolla, CA 92037 (US).

- (74) Agent: SPRUCE, Lyle; Arena Pharmaceuticals, Inc., 6166 Nancy Ridge Drive, San Diego, CA 92121-3223 (81) Designated States (unless otherwise indicated, for every
 - kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB. GD. GE. GH. GM. HR. HU. ID. IL. IN. IS, JP. KE. KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, 7W
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR. GB. GR. HU. IE. IT. LU. MC. NL. PL. PT. RO. SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BENZAZEPINE DERIVATIVES AND METHODS OF PROPHYLAXIS OR TREATMENT OF 5HT2C RECEPTOR ASSOCIATED DISEASES

(57) Abstract: The present invention relates to substituted-2,3,4,5-tetrahydro-3-benzazepine derivatives that are modulators of the 5HT_{2C} receptor. Accordingly, compounds of the present invention are useful for the prophylaxis or treatment of 5HT_{2C} receptor associated diseases, conditions or disorders, such as, obesity and related disorders.